

**Leaky mode –**  
refracted wave into  
cladding; energy lost  
from core to cladding.

**Guided mode –**  
no refraction, but evanescent  
tail into cladding; no energy  
lost from core unless absorbing  
species within decay range.

FIG. 1

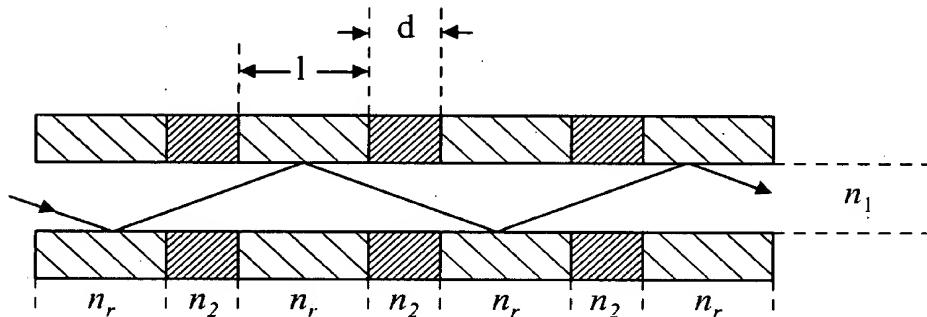


FIG. 2

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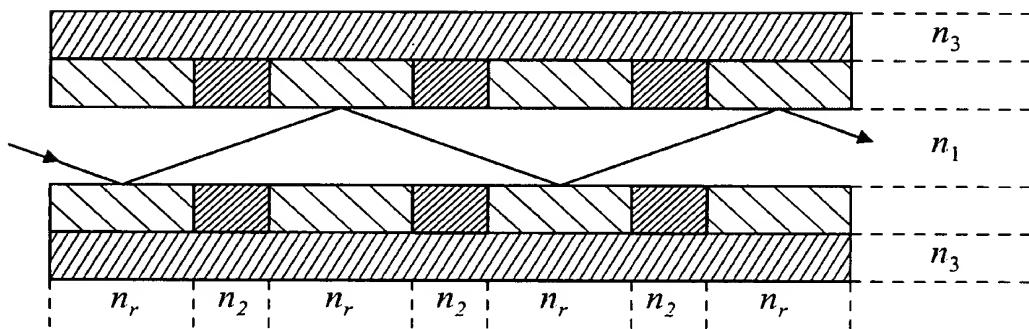


FIG. 3

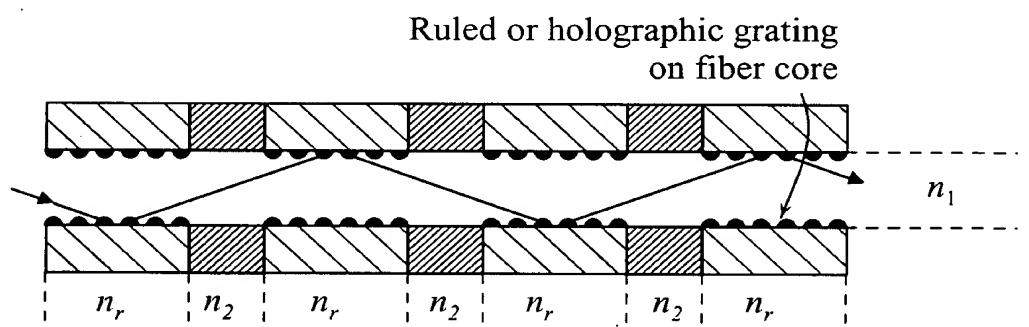
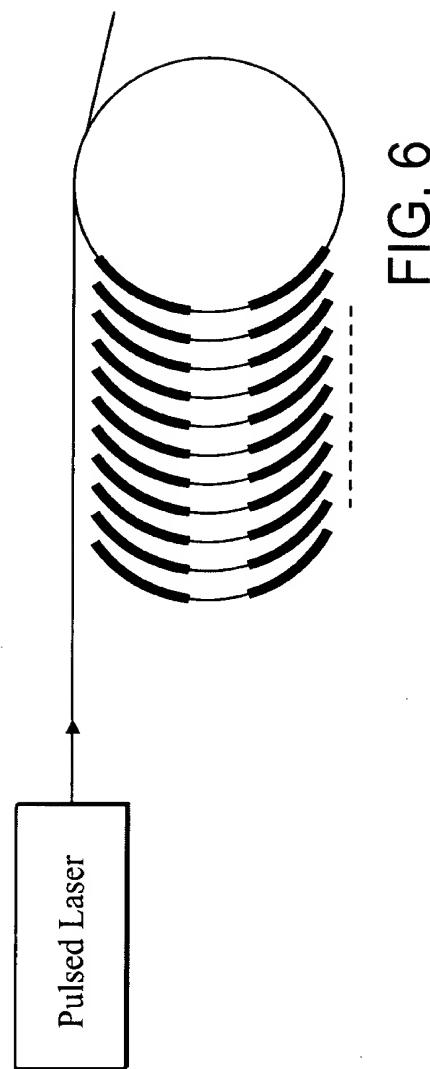
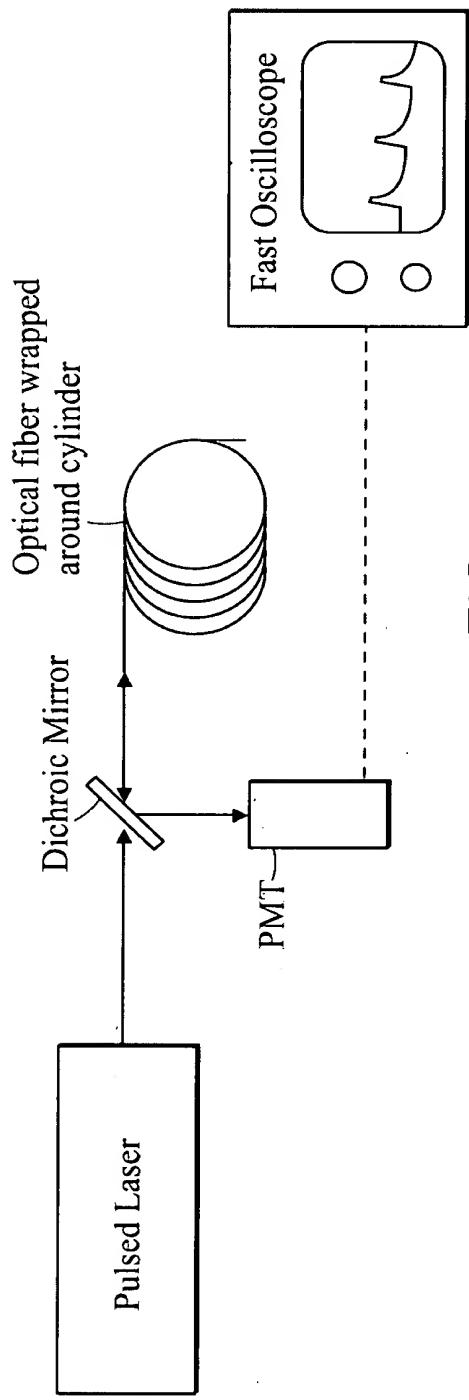


FIG. 4



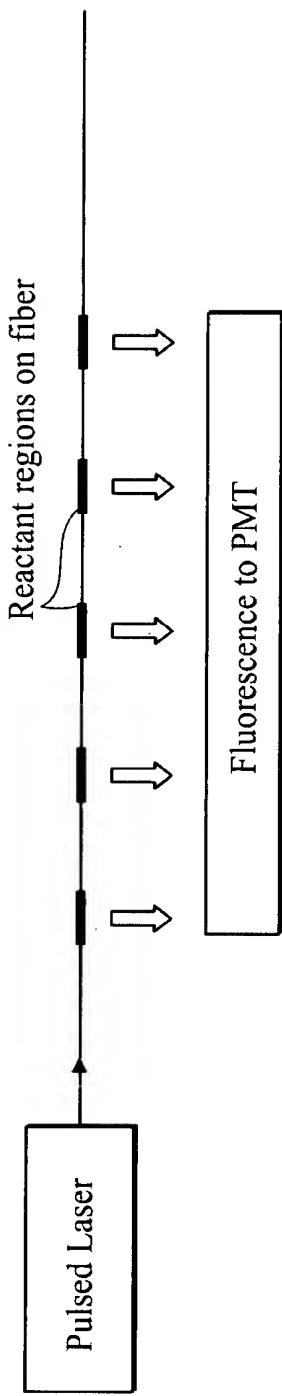


FIG. 7

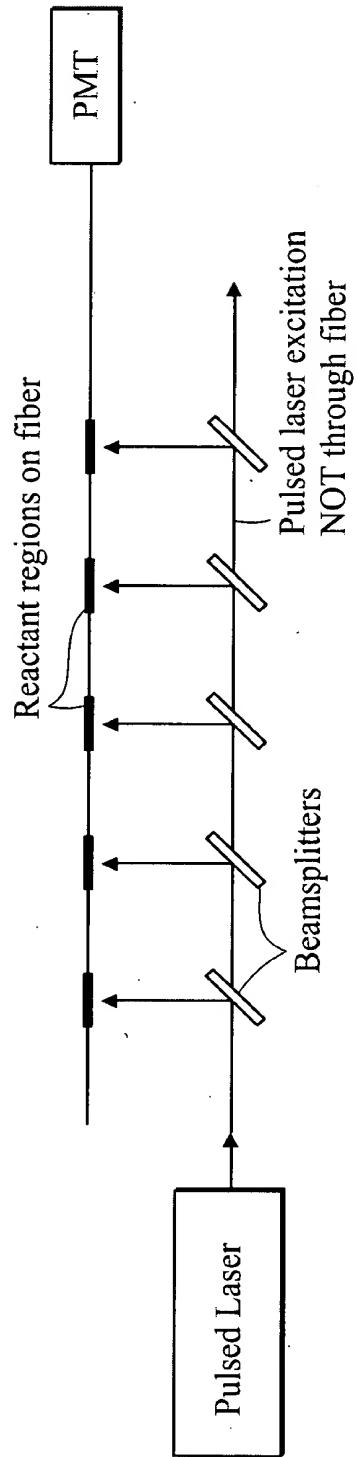


FIG. 8

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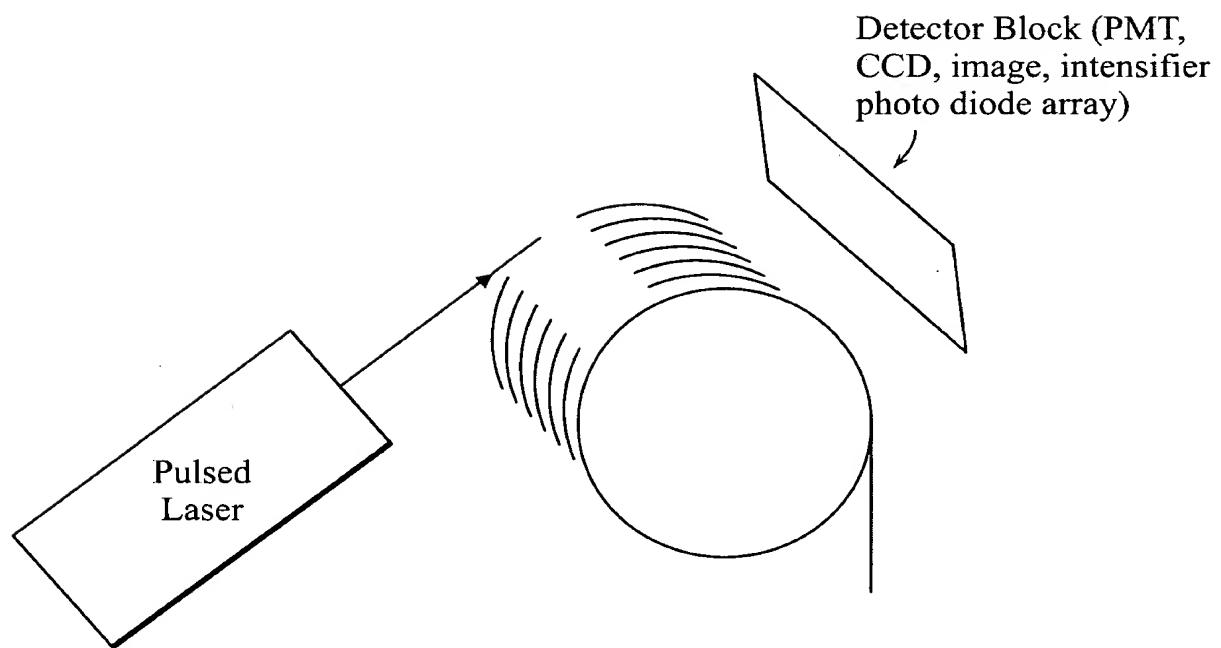


FIG. 9

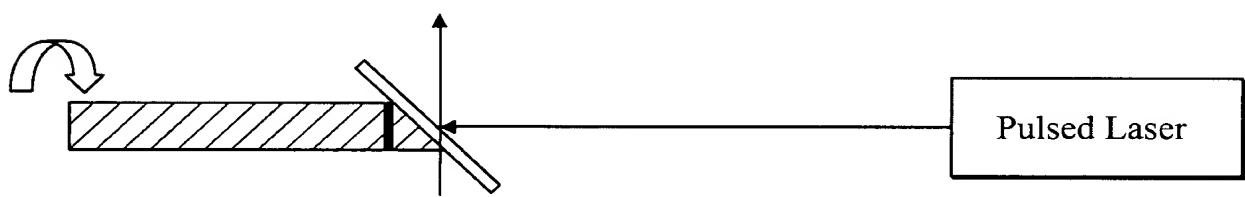


FIG. 10

REPLACEMENT SHEET

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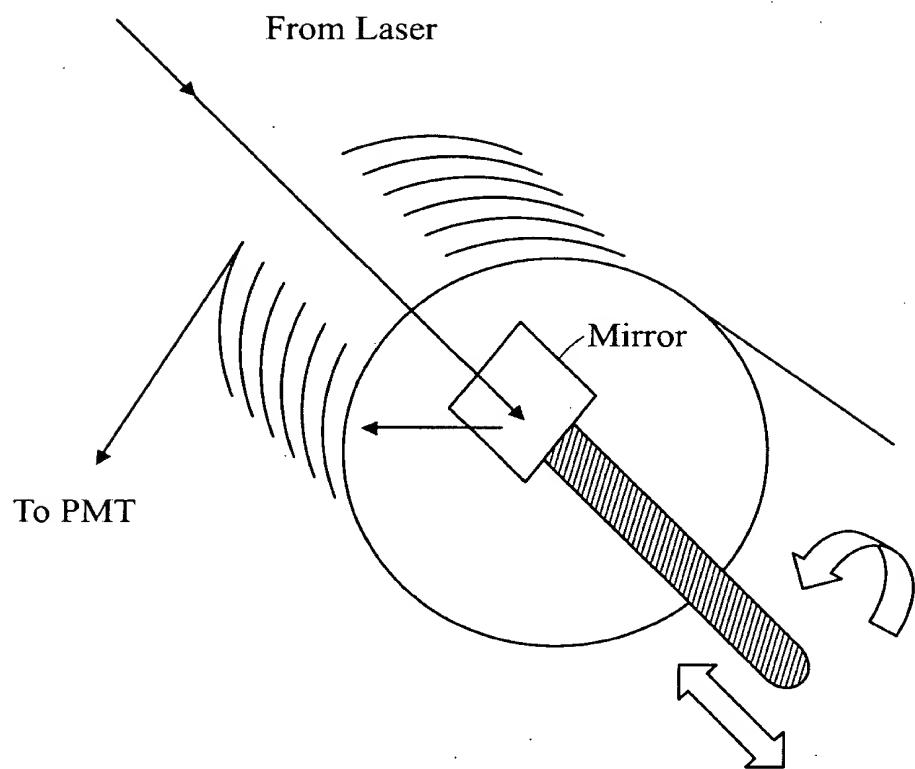


FIG. 11

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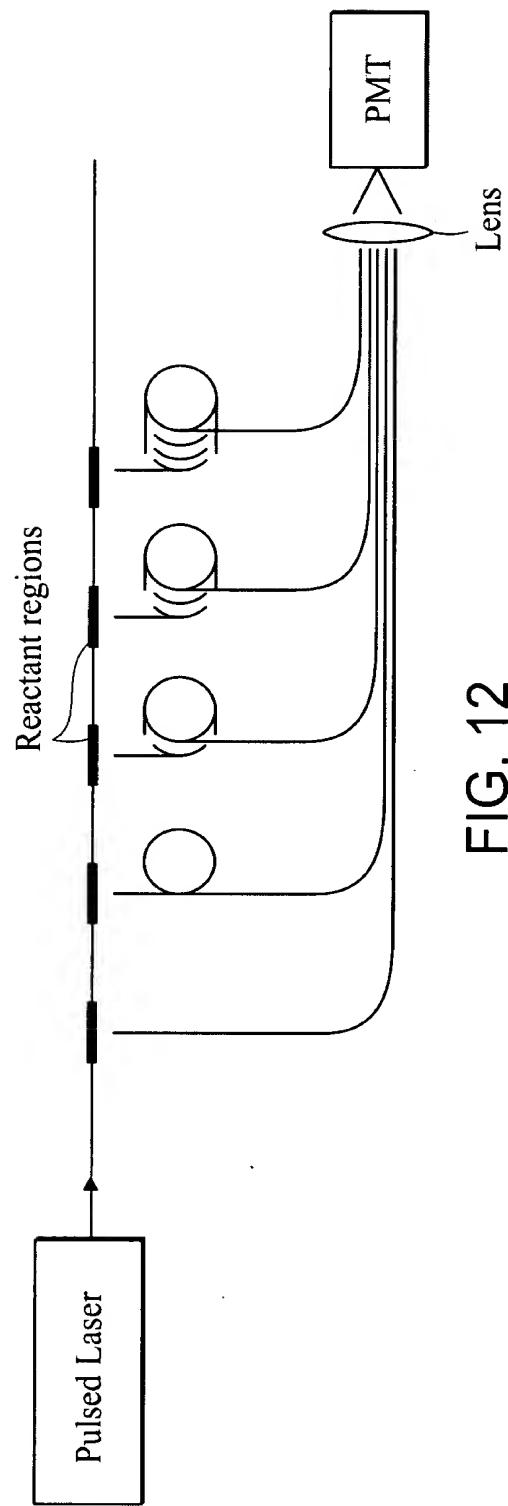


FIG. 12

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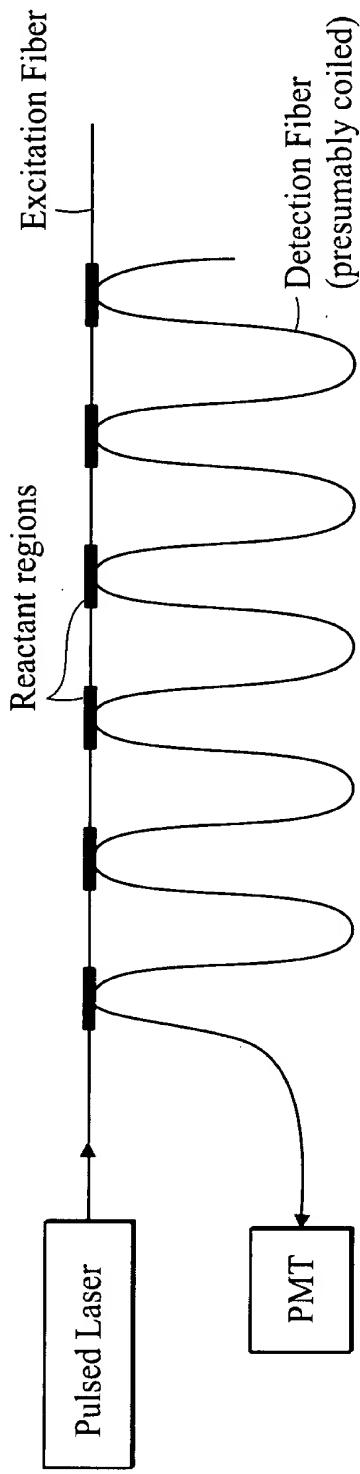


FIG. 13

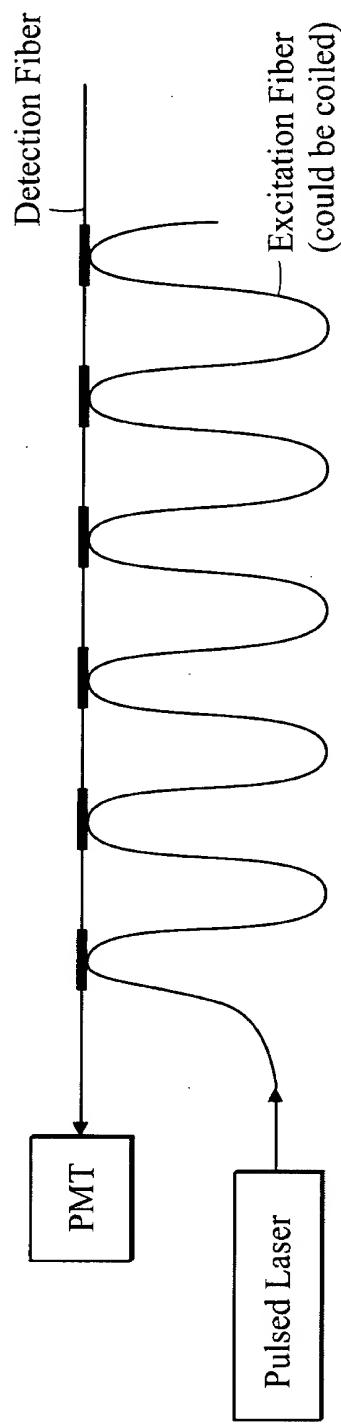


FIG. 14

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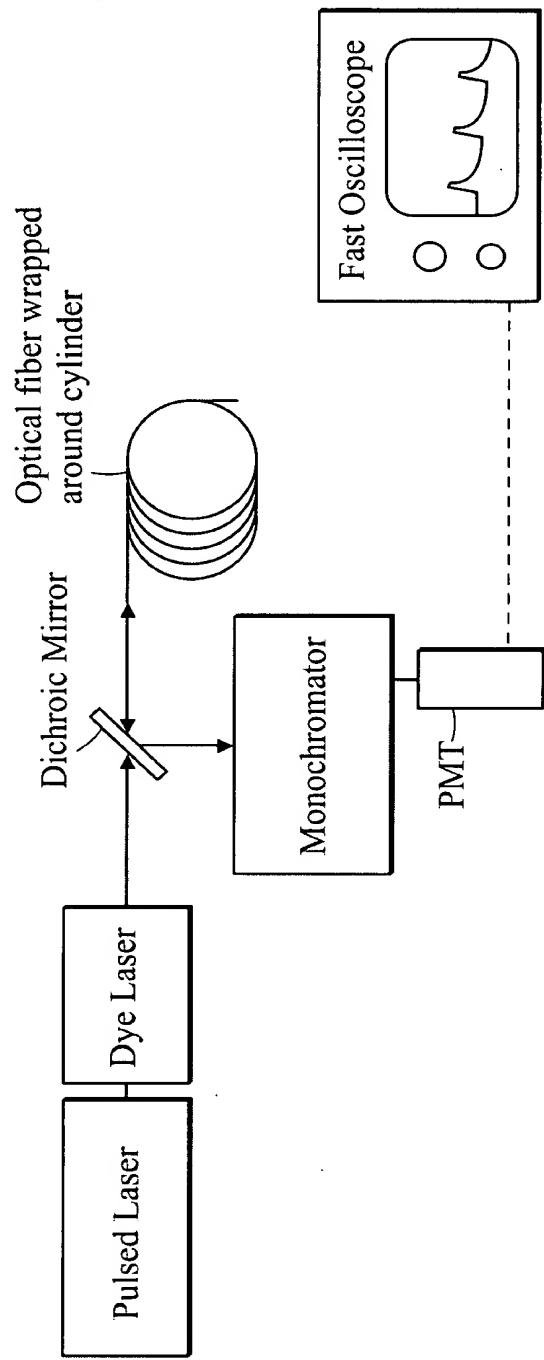


FIG. 15

FIG. 16A

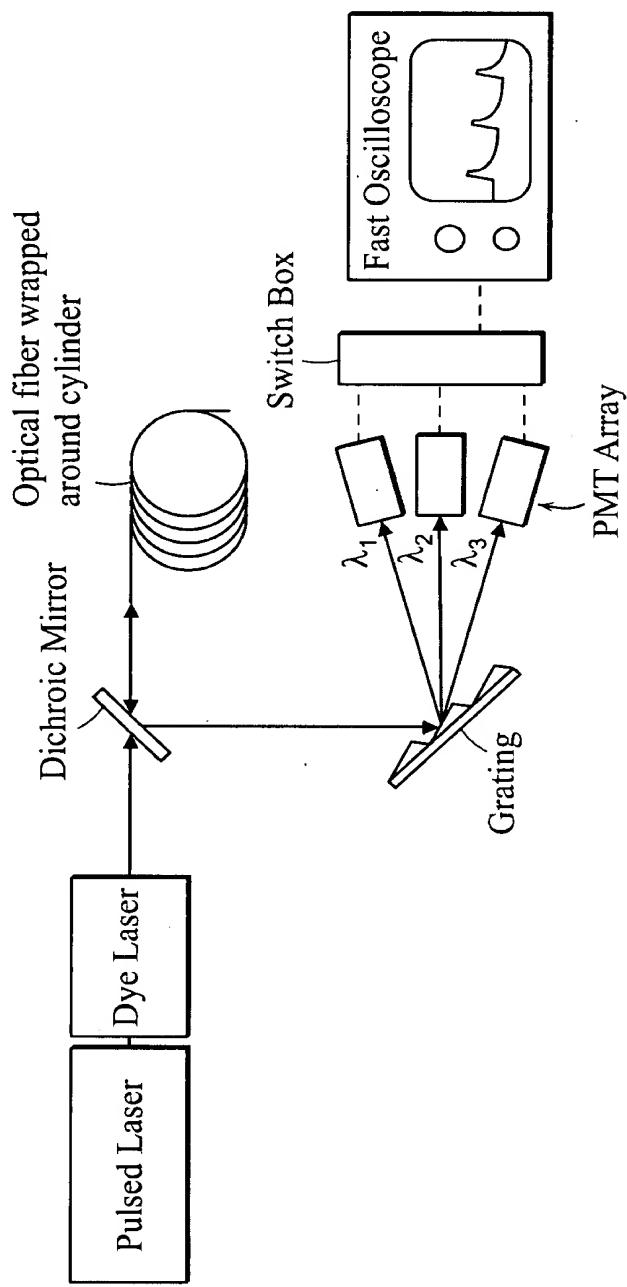
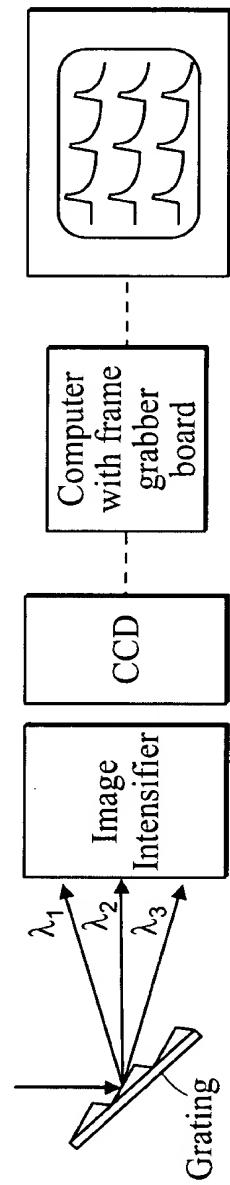


FIG. 16B



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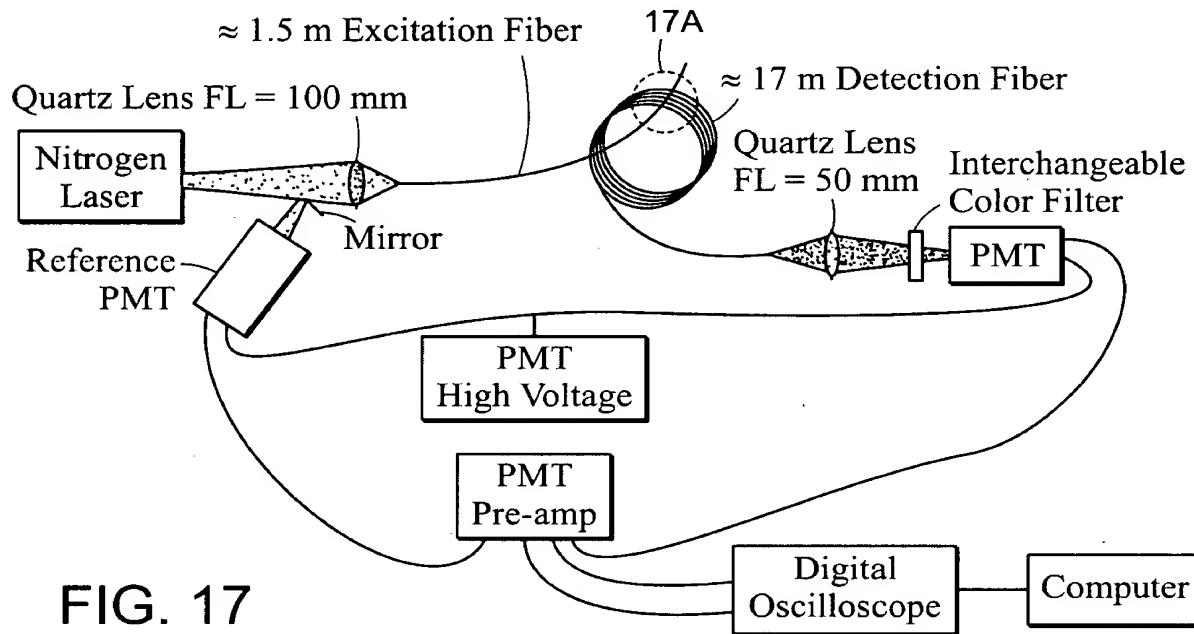


FIG. 17

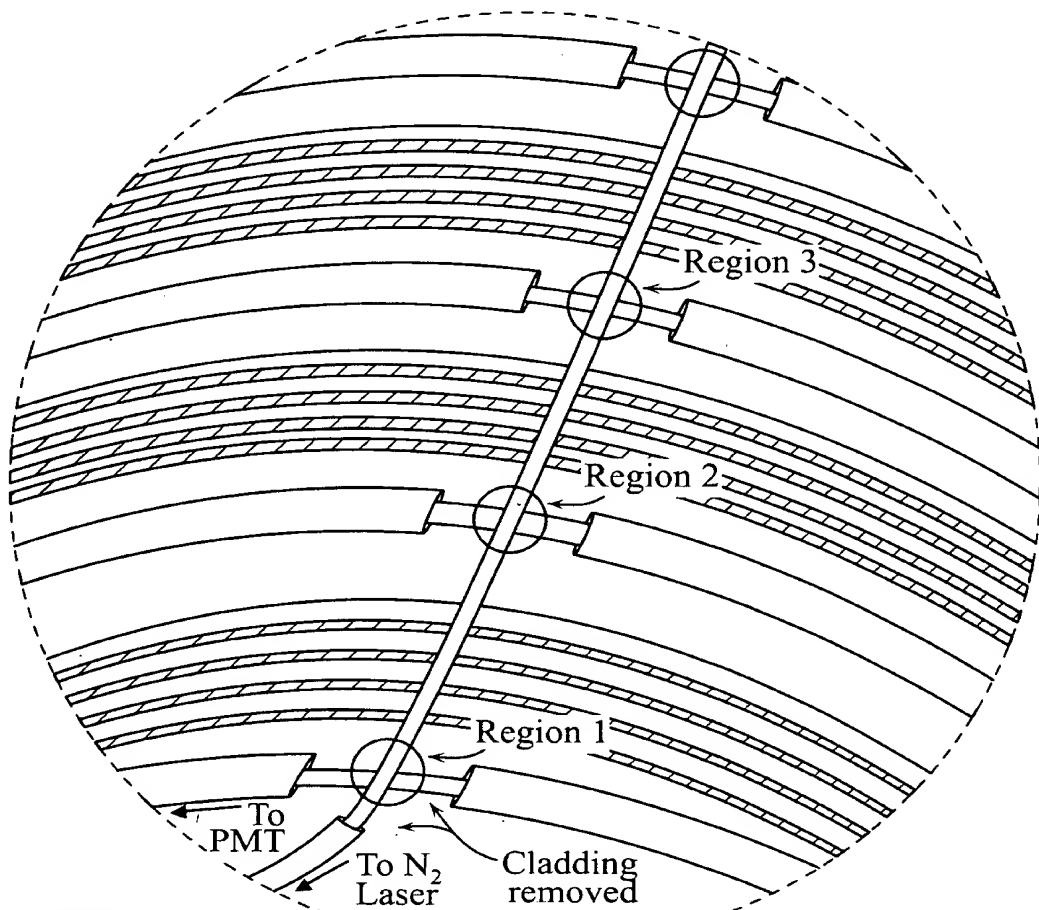


FIG. 17A

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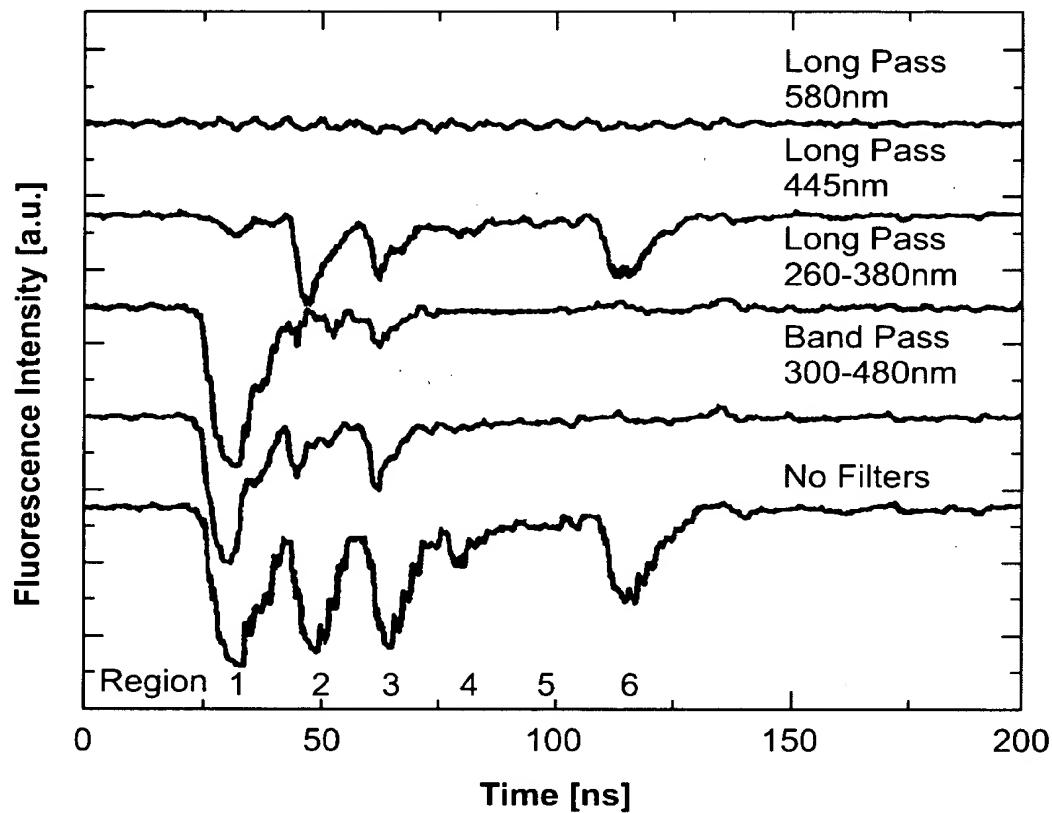


FIG. 18